

FIG. 1

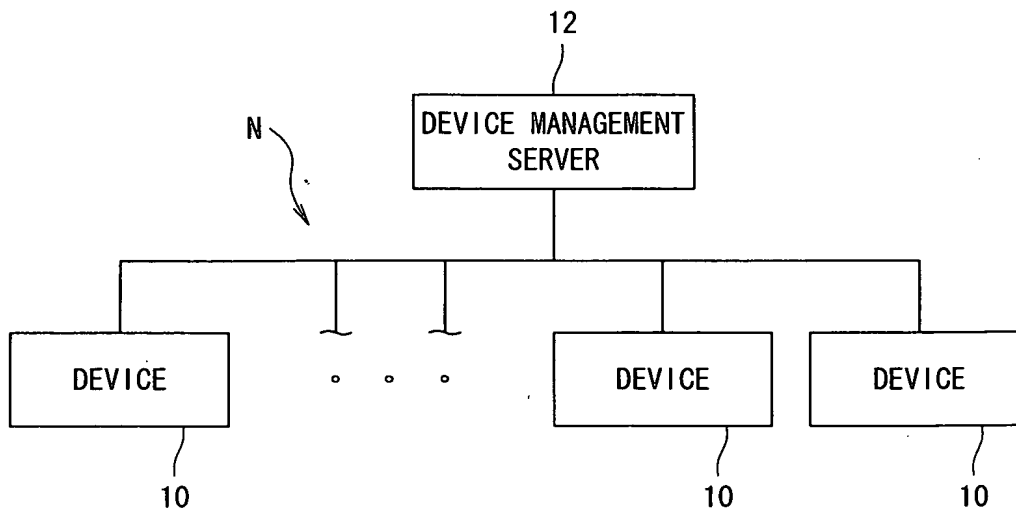


FIG. 2

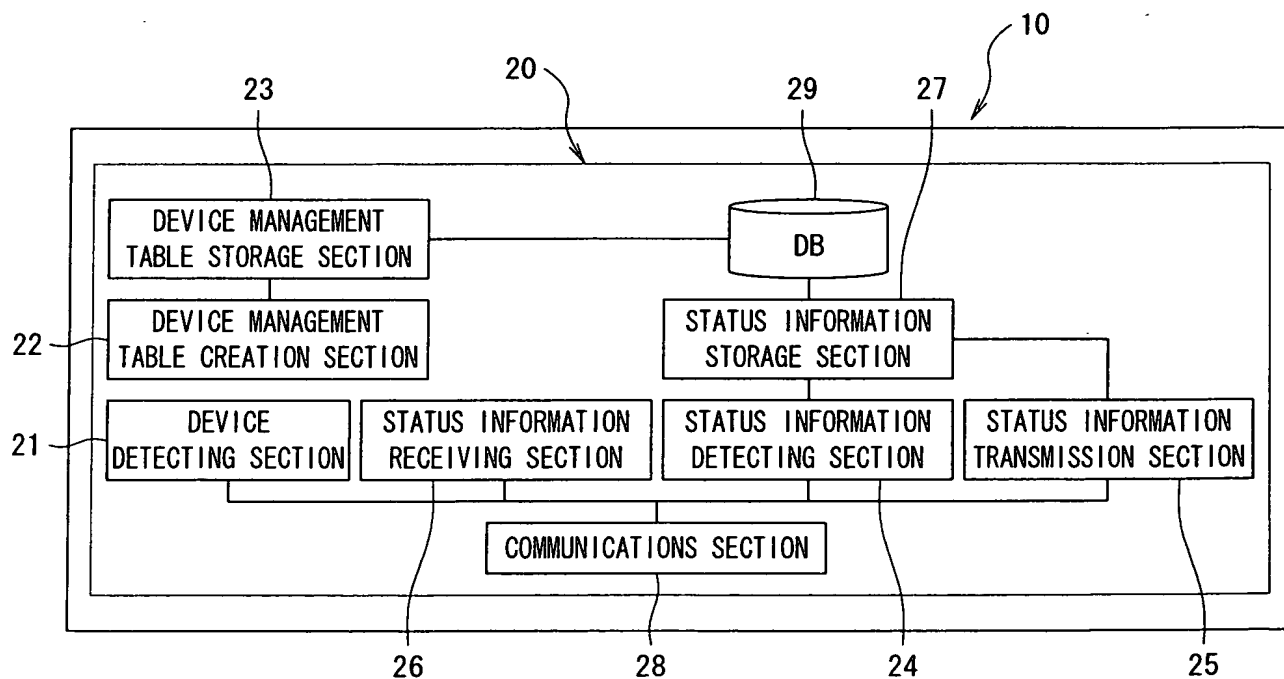


FIG. 3

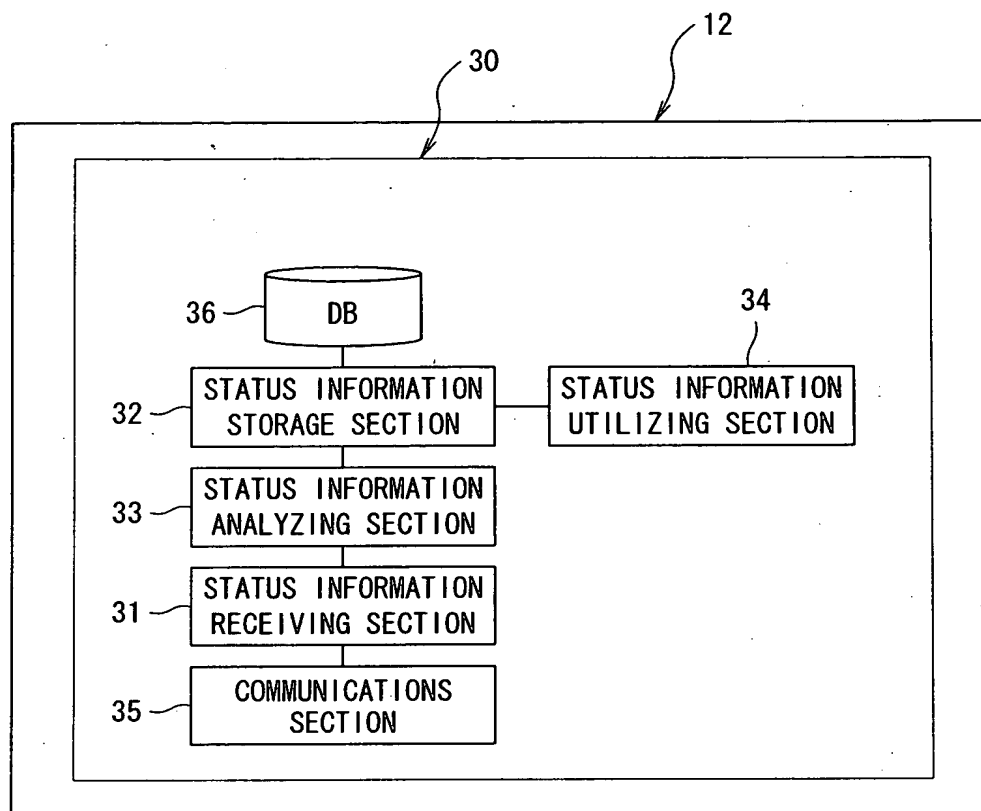


FIG. 4

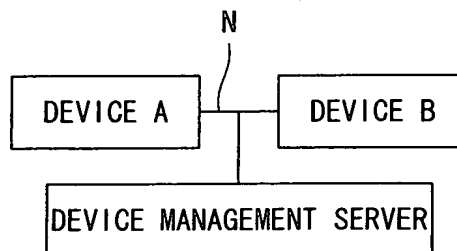


FIG. 5A

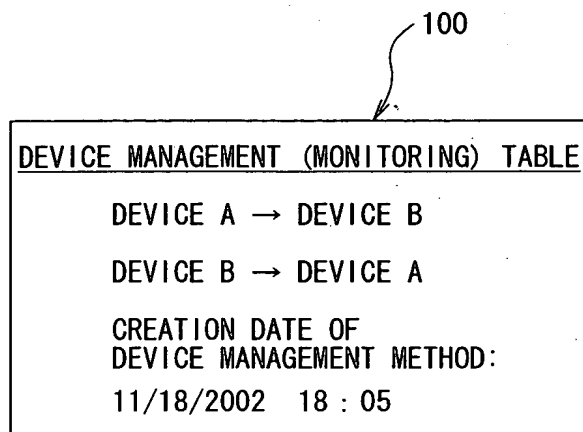


FIG. 5B

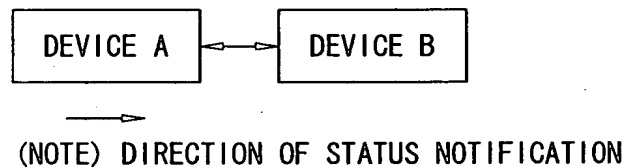


FIG. 6

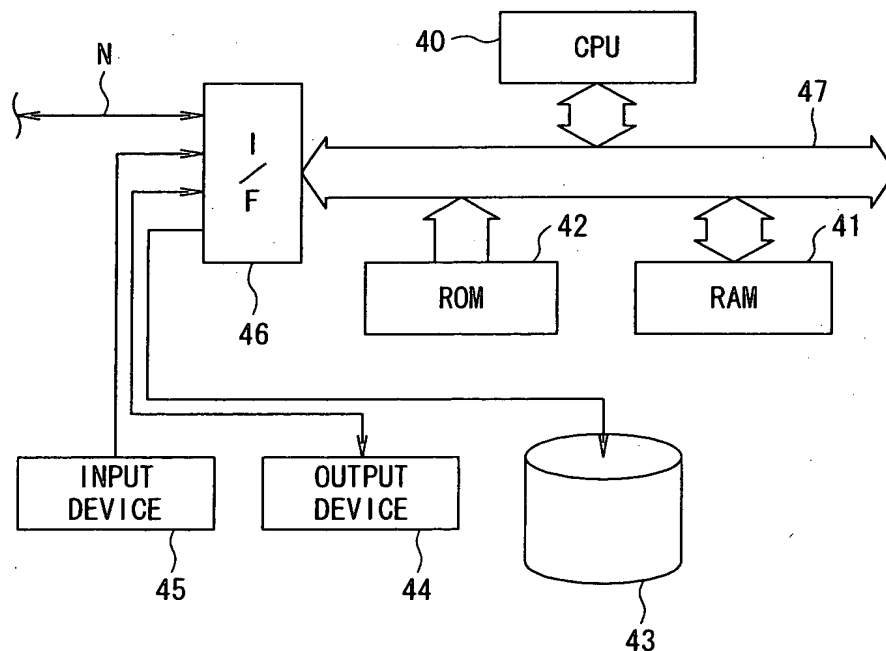


FIG. 7

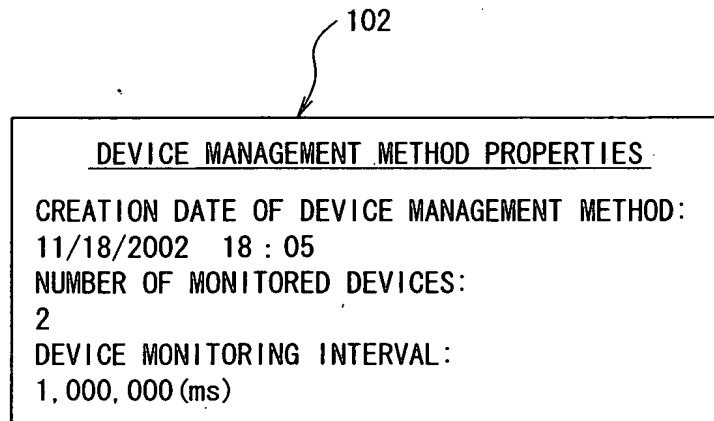


FIG. 8

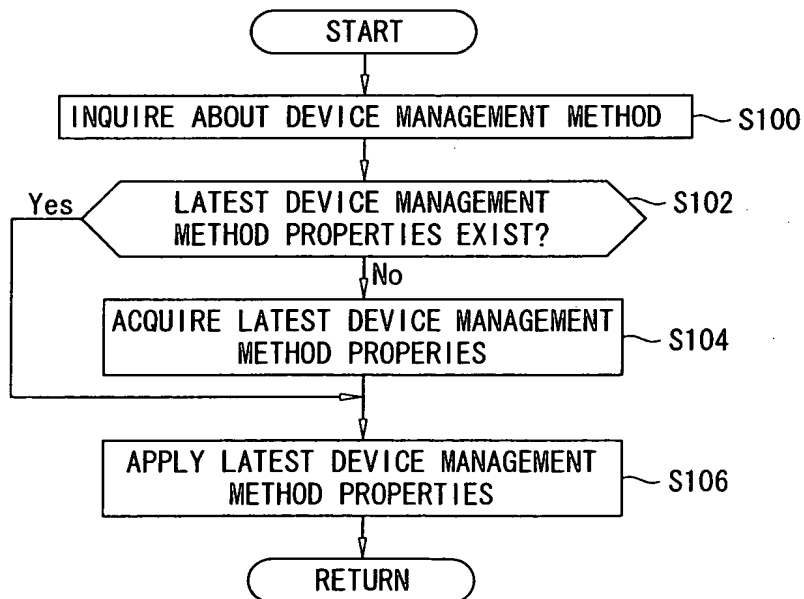


FIG. 9

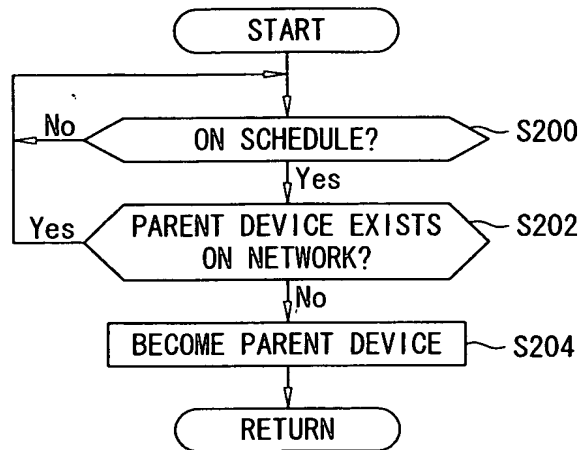


FIG. 10

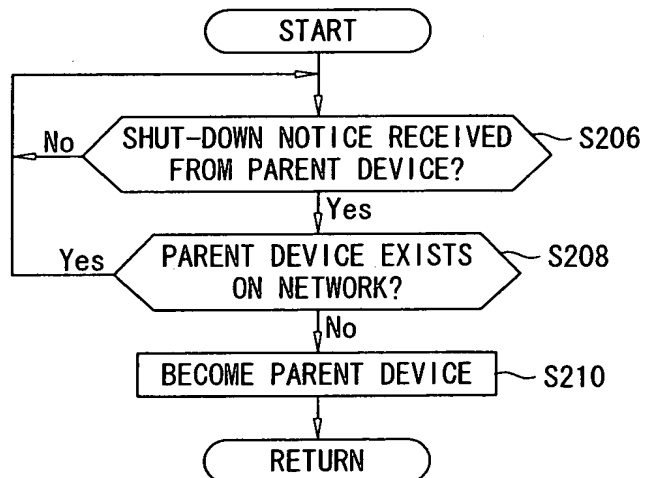


FIG. 11

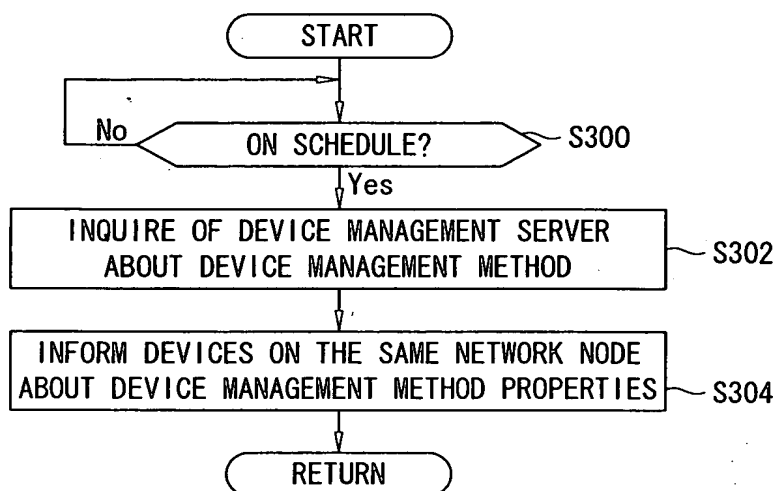


FIG. 12

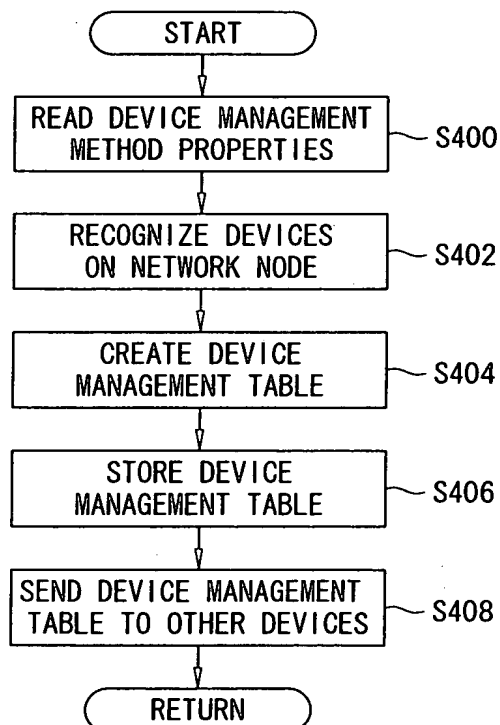


FIG. 13

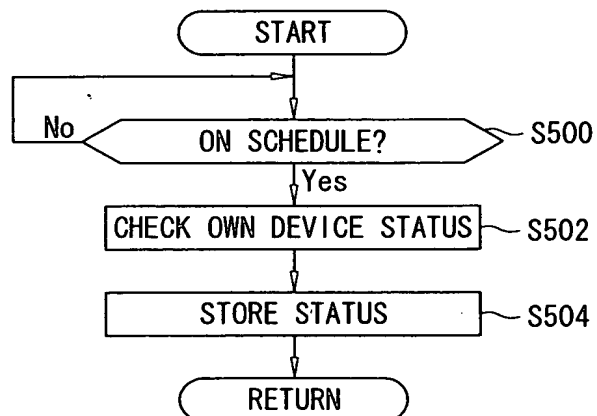


FIG. 14

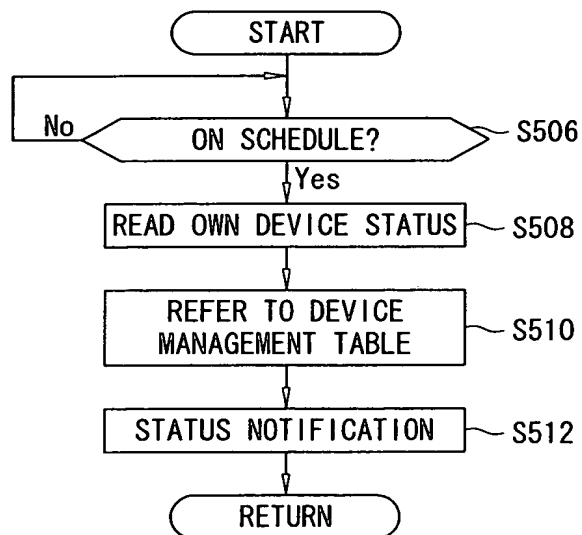


FIG. 15

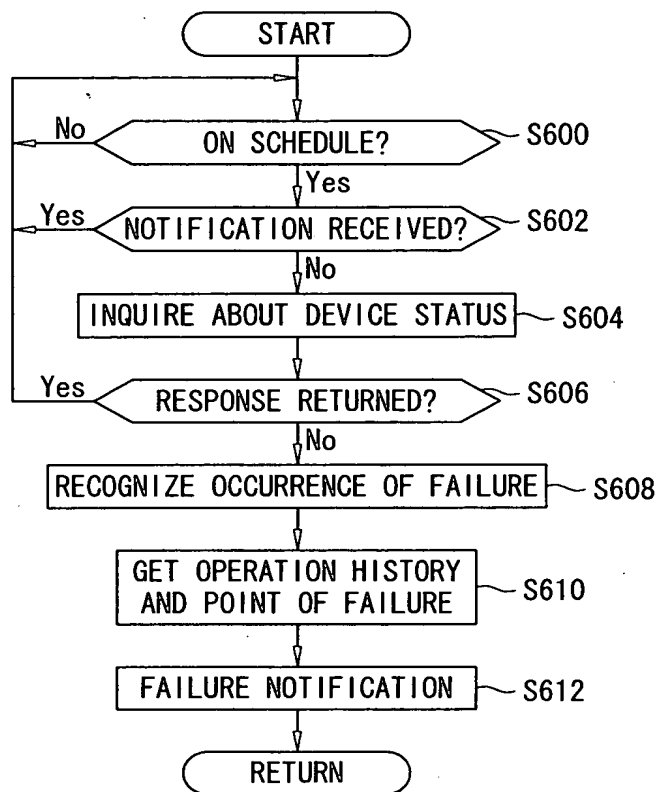


FIG. 16

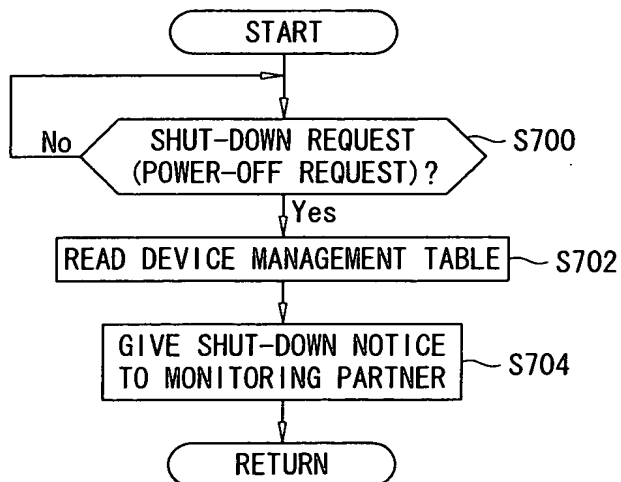
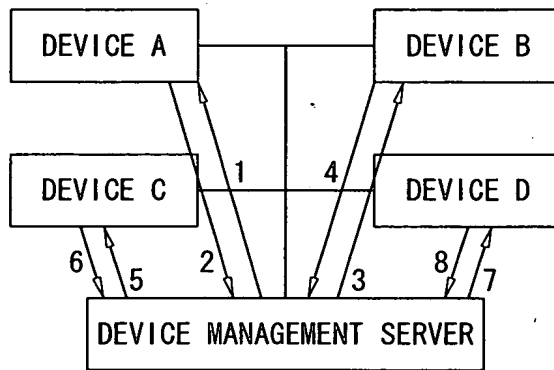
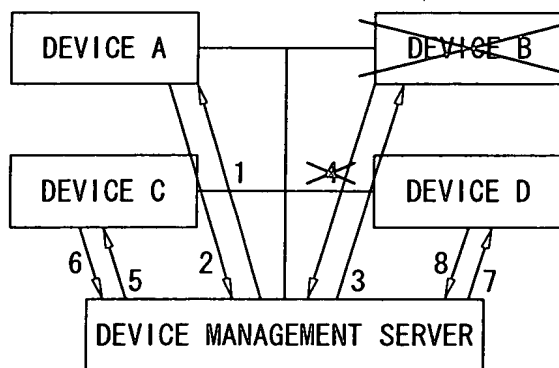


FIG. 17



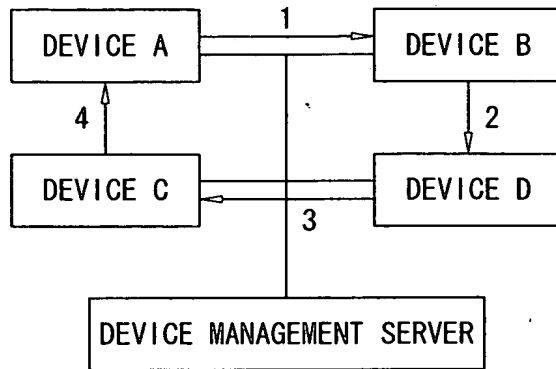
INQUIRY : 1, 3, 5, 7
RESPONSE : 2, 4, 6, 8
NUMBER OF SERVER'S
COMMUNICATIONS PROCESSING TASKS : 8

FIG. 18



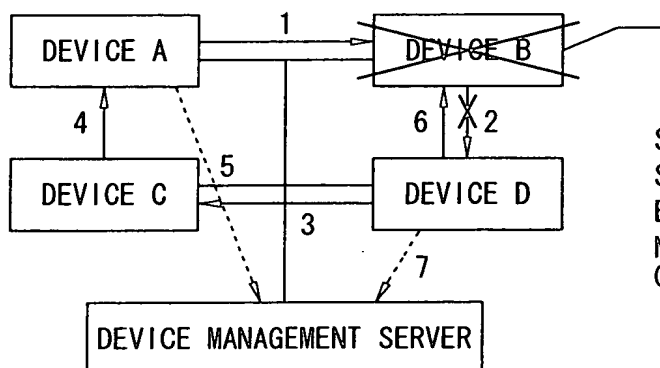
INQUIRY : 1, 3, 5, 7
RESPONSE : 2, ~~4~~, 6, 8
NUMBER OF SERVER'S
COMMUNICATIONS PROCESSING TASKS : 7

FIG. 19



STATUS NOTIFICATION : 1, 2, 3, 4
NUMBER OF SERVER'S
COMMUNICATIONS PROCESSING TASKS : 0

FIG. 20



OCCURRENCE OF FAILURE
SYSTEM DOWN

STATUS NOTIFICATION : 1, ~~2~~, 3, 4
STATUS CHECK : 6
ERROR NOTIFICATION : 5 or 7
NUMBER OF SERVER'S
COMMUNICATIONS PROCESSING TASKS : 1

FIG. 21

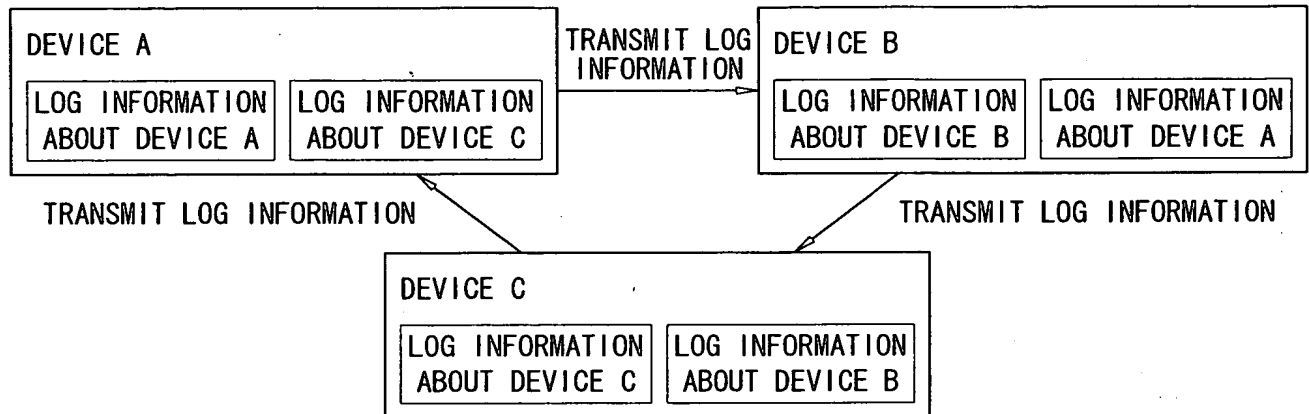


FIG. 22

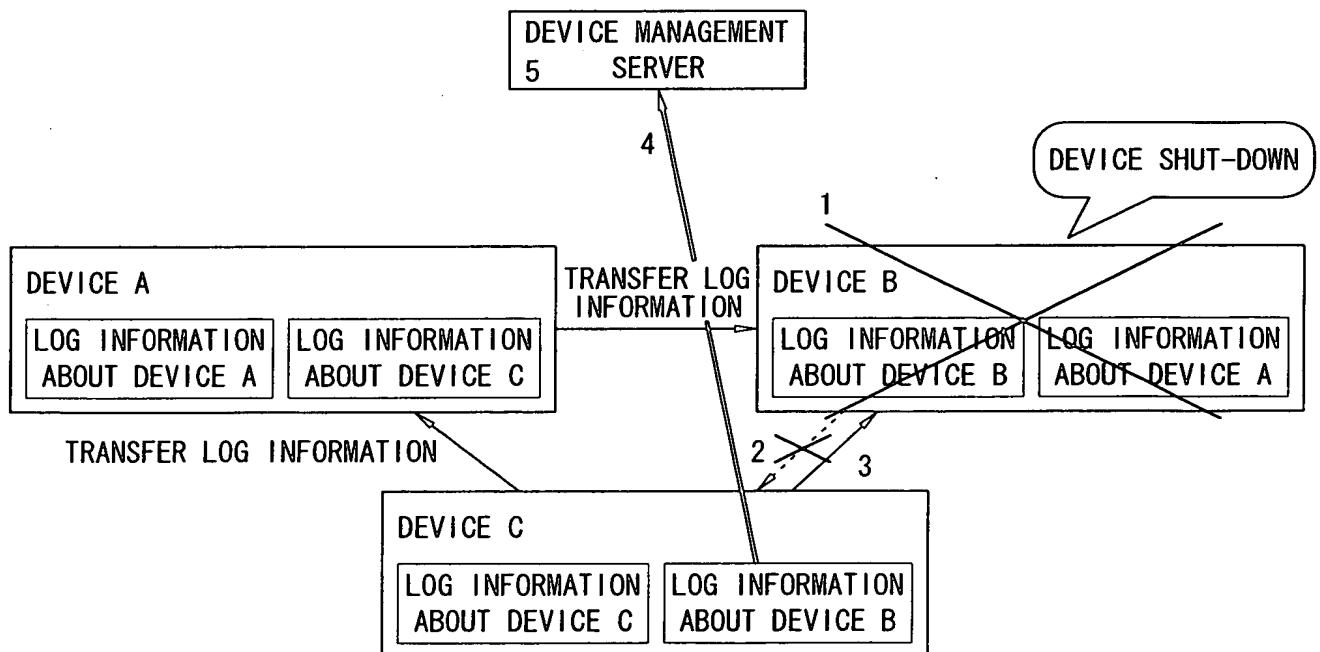


FIG. 23

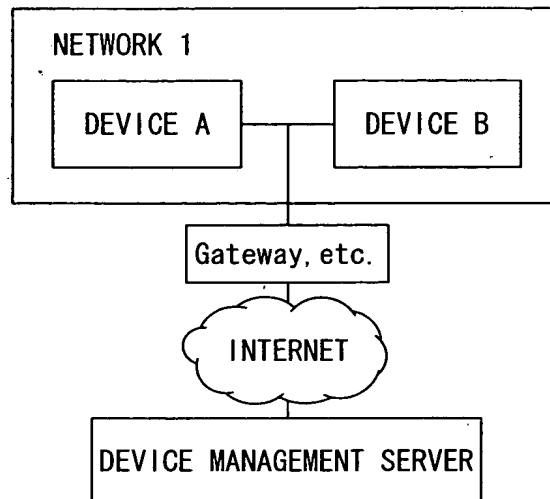


FIG. 24

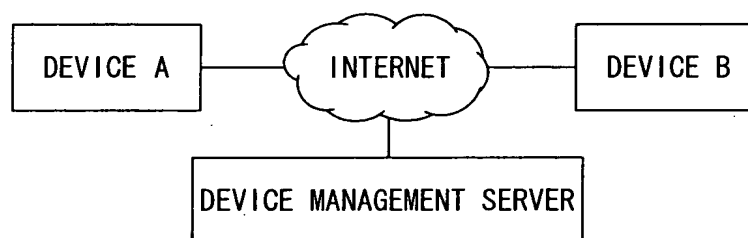


FIG. 25

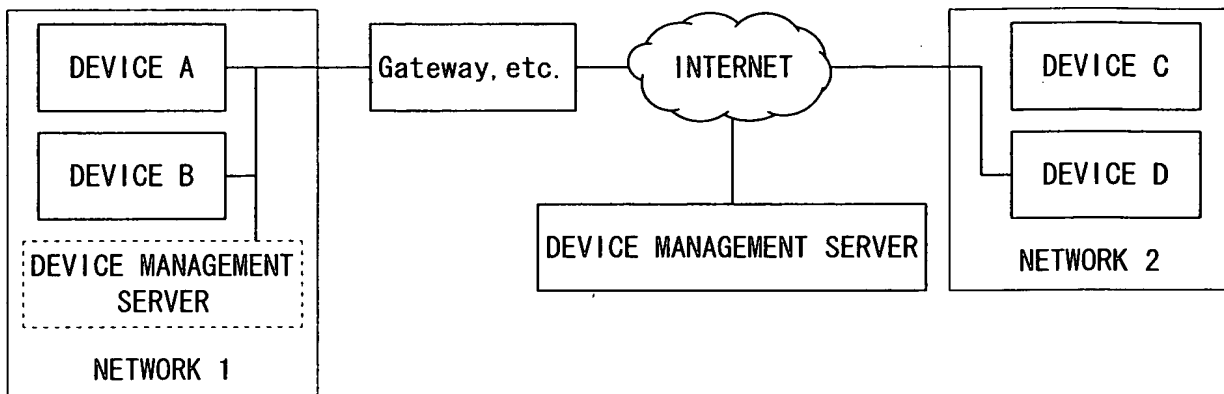


FIG. 26

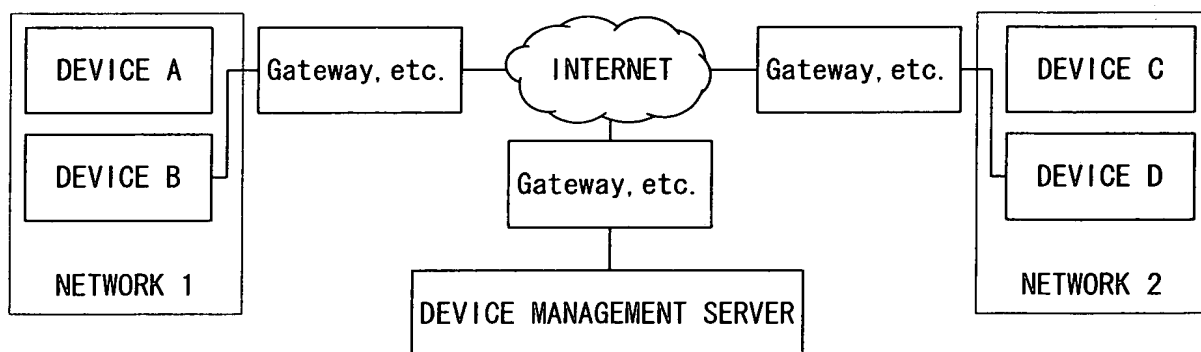


FIG. 27

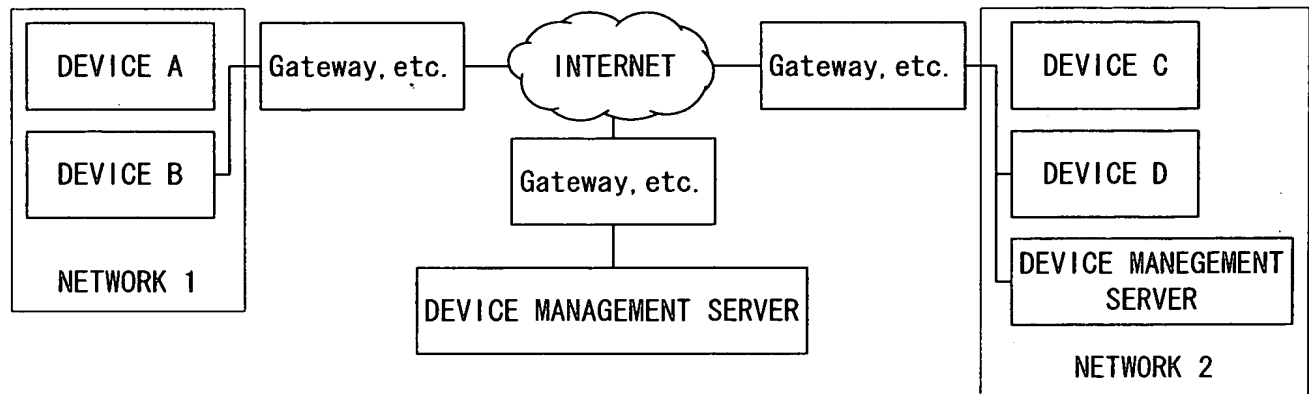


FIG. 28

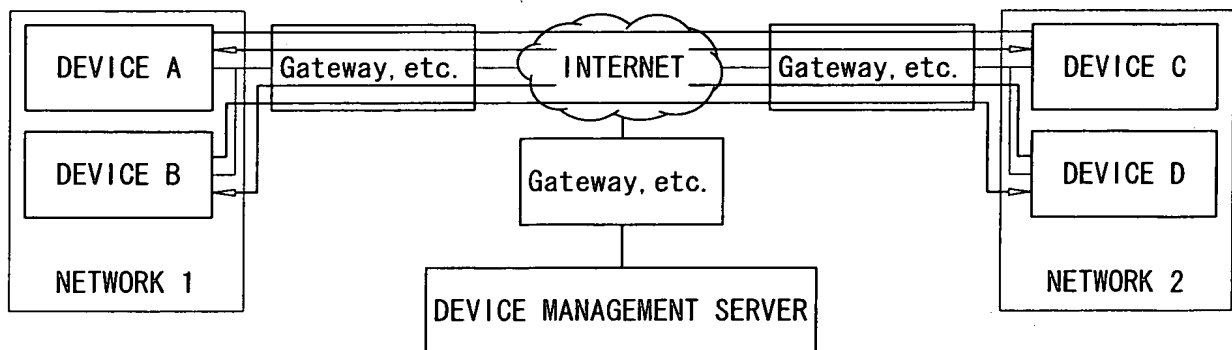


FIG. 29

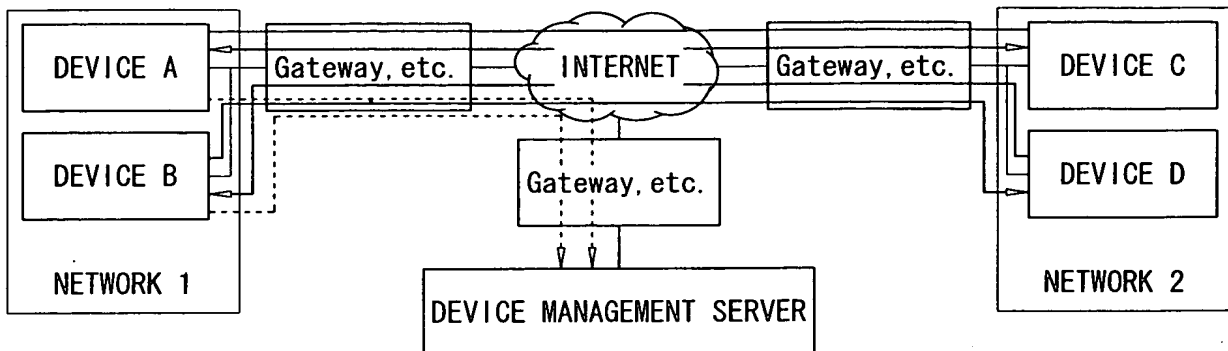


FIG. 30A

FIG. 30B

WHEN THE NUMBER OF DEVICES IS 3:

DEVICE MANAGEMENT (MONITORING) TABLE

DEVICE A → DEVICE B
 DEVICE B → DEVICE C
 DEVICE C → DEVICE A
 DEVICE A → DEVICE C
 DEVICE B → DEVICE A
 DEVICE C → DEVICE B

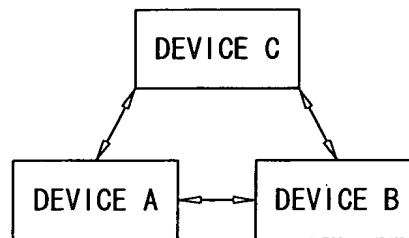


FIG. 31A

FIG. 31B

WHEN THE NUMBER OF DEVICES IS N:

DEVICE MANAGEMENT (MONITORING) TABLE
DEVICE A → DEVICE B
DEVICE A → DEVICE D
DEVICE B → DEVICE C
DEVICE B → DEVICE E
DEVICE C → DEVICE D
DEVICE C → DEVICE A
⋮

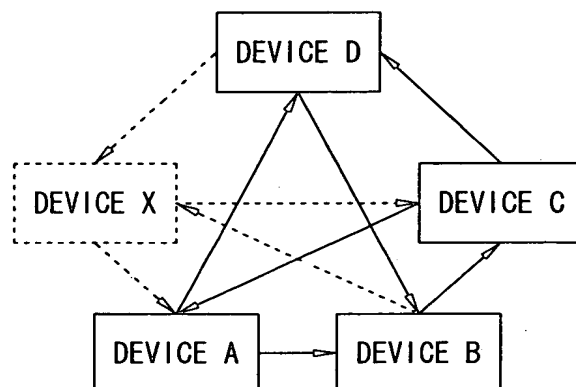


FIG. 32

	MANUFACTURING DATE
DEVICE A	07/25/2001
DEVICE B	10/14/2001
DEVICE C	04/16/2002
DEVICE D	11/28/2002

FIG. 33

DEVICE MANAGEMENT (MONITORING) TABLE	
DEVICE A	→ DEVICE D
DEVICE D	→ DEVICE B
DEVICE B	→ DEVICE C
DEVICE C	→ DEVICE A

FIG. 34

DEVICE MANAGEMENT (MONITORING) TABLE	
DEVICE A	→ DEVICE D
DEVICE D	→ DEVICE B
DEVICE D	→ DEVICE A
DEVICE B	→ DEVICE C
DEVICE C	→ DEVICE A
DEVICE C	→ DEVICE B

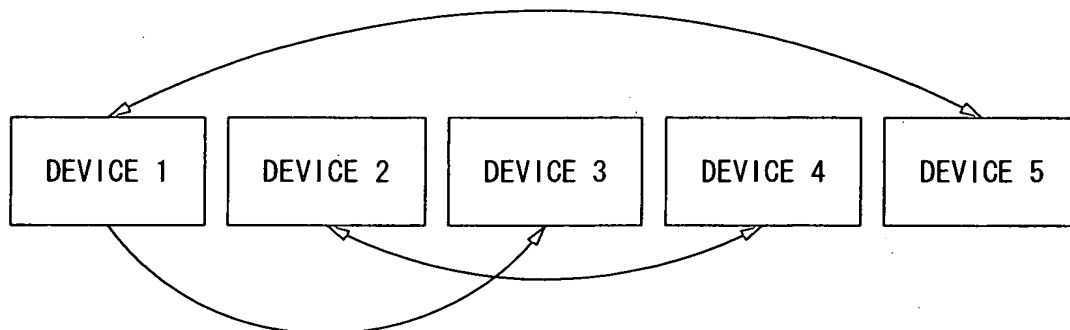
FIG. 35

CURRENT DATE: 10/01/2003

UNIT: MONTHS

DEVICE NAME	MANUFACTURING DATE	X	Y	Y'
DEVICE 1	NEWEST (3/1/2003)	X1 (7)	Y1 (15-7 =8)	—
DEVICE 2	SECOND NEWEST (7/1/2002)	X2 (15)	Y2 (26)	Y' 2 (6)
DEVICE 3	THIRD NEWEST (2/1/2001)	X3 (32)	Y3 (32)	Y' 3 (13)
DEVICE 4	FOURTH NEWEST (8/1/2000)	X4 (38)	Y4 (39)	—
DEVICE 5	FIFTH NEWEST (OLDEST) (1/1/2000)	X5 (45)	—	—

FIG. 36



Title: DEVICE MONITORING SYSTEM, MONITORING PROGRAM, AND MONITORING
METHOD AND DEVICE

Inventors: Toru TAKAHASHI, Senichi MOKUYA
Atty. Ref.: 9319M-000620

FIG. 37

DEVICE NAME	MANUFACTURING DATE	PRODUCT LIFE
DEVICE 1	NEWEST	L1
DEVICE 2	SECOND NEWEST	L2
DEVICE 3	THIRD NEWEST	L3
DEVICE 4	FOURTH NEWEST	L4
DEVICE 5	FIFTH NEWEST (OLDEST)	L5

FIG. 38

CURRENT DATE: 10/01/2003

UNIT: MONTHS

DEVICE NAME	MANUFACTURING DATE	X (MONTHS)	PRODUCT LIFE	Y=L-X	Z	Z'
DEVICE 1	NEWEST (3/1/2003)	X1 (7)	L1 (12)	Y1 (5)	Z1 (4)	—
DEVICE 2	SECOND NEWEST (7/1/2002)	X2 (15)	L2 (24)	Y2 (9)	Z2 (-25)	Z' 2 (-29)
DEVICE 3	THIRD NEWEST (2/1/2001)	X3 (32)	L3 (12)	Y3 (-20)	Z3 (-7)	Z' 3 (-11)
DEVICE 4	FOURTH NEWEST (8/1/2000)	X4 (38)	L4 (36)	Y4 (-2)	Z4 (-38)	—
DEVICE 5	FIFTH NEWEST (OLDEST) (1/1/2000)	X5 (45)	L5 (12)	Y5 (-33)	—	—

FIG. 39

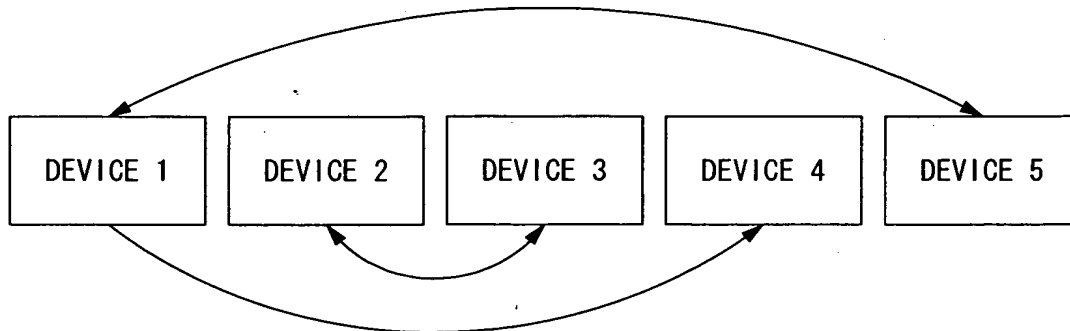


FIG. 40

CURRENT DATE: 10/01/2003

DEVICE NAME	MANUFACTURING DATE
DEVICE 1	NEWEST (3/1/2003)
DEVICE 2	SECOND NEWEST (7/1/2002)
DEVICE 3	THIRD NEWEST (2/1/2001)
DEVICE 4	FOURTH NEWEST (8/1/2000)
DEVICE 5	FIFTH NEWEST (OLDEST) (1/1/2000)

FIG. 41

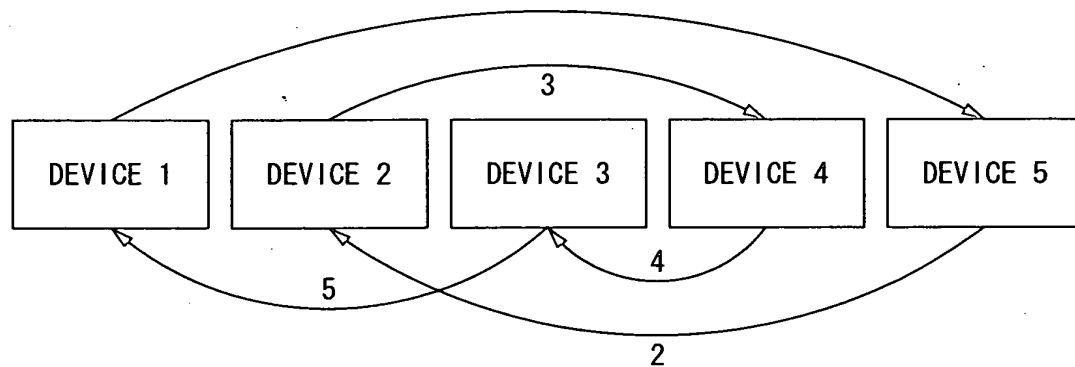


FIG. 42

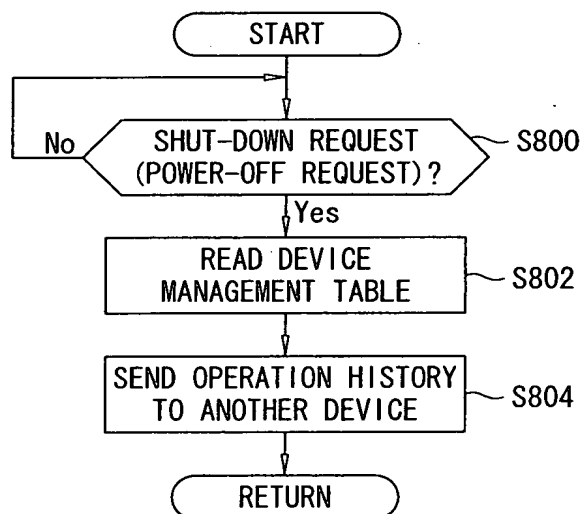


FIG. 43

